

Federal Communications Commission Washington, D.C. 20554 <div style="text-align: center;">FCC 301</div>	Approved by OMB 3060-0027 (July 2011)	FOR FCC USE ONLY
APPLICATION FOR CONSTRUCTION PERMIT FOR COMMERCIAL BROADCAST STATION Read INSTRUCTIONS Before Filling Out Form		FOR COMMISSION USE ONLY FILE NO. - 20110824ACF

Section I - General Information

1.	Legal Name of the Applicant NEWSCHANNEL 5 NETWORK, LLC		
	Mailing Address 474 JAMES ROBERTSON PARKWAY		
	City NASHVILLE	State or Country (if foreign address) TN	ZIP Code 37219 -
	Telephone Number (include area code) 6152445000	E-Mail Address (if available)	
	FCC Registration Number: 0017439258	Call Sign WTVF	Facility ID Number 36504
2.	Contact Representative (if other than Applicant) JENNIFER A. JOHNSON, ESQ.		
	Firm or Company Name COVINGTON AND BURLING LLP		
	Mailing Address 1201 PENNSYLVANIA AVE.		
	City WASHINGTON	State or Country (if foreign address) DC	ZIP Code 20004 -
	Telephone Number (include area code) 2026625552	E-Mail Address (if available) JJOHNSON@COV.COM	
3.	If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input type="radio"/> Other <input checked="" type="radio"/> N/A (Fee Required)		
4.	Application Purpose <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="radio"/> New station <input type="radio"/> Major Modification of construction permit <input type="radio"/> Minor Modification of construction permit <input type="radio"/> Major Amendment to pending application (a) File number of original construction permit: (b) Service Type: (c) DTV Type: (d) Community of License: City: NASHVILLE (e) Facility Type: </div> <div style="width: 45%;"> <input type="radio"/> New Station with Petition for Rulemaking or Counterproposal to Amend FM Table of Allotments <input type="radio"/> Major Change in licensed facility <input checked="" type="radio"/> Minor Change in licensed facility <input type="radio"/> Minor Amendment to pending application <input type="checkbox"/> NA <input type="radio"/> AM <input type="radio"/> FM <input type="radio"/> TV <input checked="" type="radio"/> DTV <input type="radio"/> DTS <input type="radio"/> Pre-Transition <input checked="" type="radio"/> Post-Transition <input type="radio"/> Both </div> </div>		
	If an amendment, submit as an Exhibit a listing by Section and Question Number the portions of the pending		

[Exhibit 1]

application that are being revised.

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

Section II - Legal

1.	Certification. Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	Parties to the Application. a. List the applicant, and, if other than a natural person, its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. If a corporation or partnership holds an attributable interest in the applicant, list separately its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. Create a separate row for each individual or entity. Attach additional pages if necessary. <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> (1) Name and address of the applicant and each party to the application holding an attributable interest (if other than individual also show name, address and citizenship of natural person authorized to vote the stock or holding the attributable interest). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and other entities with attributable interests, and partners. [Enter Parties/Owners Information] <hr/> <hr/> </div> <div style="width: 48%;"> (2) Citizenship. (3) Positional Interest: Officer, director, general partner, limited partner, LLC member, investor/creditor attributable under the Commission's equity/debt plus standard, etc. (4) Percentage of votes. (5) Percentage of total assets (equity plus debt). </div> </div>	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A See Explanation in [Exhibit 2]
3.	Other Authorizations. List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest.	<input type="checkbox"/> N/A [Exhibit 3]
4.	Multiple Ownership. <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> a. Is the applicant or any party to the application the holder of an attributable radio joint sales agreement or an attributable radio or television time brokerage agreement in the same market as the station subject to this application? If "YES," radio applicants must submit as an Exhibit a copy of each such agreement for radio stations. </div> <div style="border: 1px solid black; padding: 5px;"> b. Applicant certifies that the proposed facility complies with the Commission's multiple ownership rules and cross-ownership rules. Radio applicants only: If "Yes," submit an Exhibit providing information regarding the market, broadcast station(s), and other information necessary to demonstrate compliance with 47 C.F.R. § 73.3555(a). </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <input type="radio"/> Yes <input checked="" type="radio"/> No [Exhibit 4] </div> <div style="border: 1px solid black; padding: 5px;"> <input checked="" type="radio"/> Yes <input type="radio"/> No [Exhibit 5] </div>

	All Applicants: If "No," submit as an Exhibit a detailed explanation in support of an exemption from, or waiver of, 47 C.F.R. § 73.3555.	
c.	Applicant certifies that the proposed facility: (1) does not present an issue under the Commission's policies relating to media interests of immediate family members; (2) complies with the Commission's policies relating to future ownership interests; and (3) complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 6]
d.	Does the Applicant claim status as an "eligible entity," that is, an entity that qualifies as a small business under the Small Business Administration's size standards for its industry grouping (as set forth in 13 C.F.R. § 121-201), and holds: (1) 30 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet; or (2) 15 percent or more of the stock or partnership interests and more than 50 percent of the voting power of the corporation or partnership that will own the media outlet, provided that no other person or entity owns or controls more than 25 percent of the outstanding stock or partnership interests; or (3) more than 50 percent of the voting power of the corporation that will own the media outlet (if such corporation is a publicly traded company)? All applicants: If "Yes," submit as an Exhibit a detailed showing demonstrating proof of status as an eligible entity.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 7]
5.	Character Issues. Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with: a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have been raised.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 8]
6.	Adverse Findings. Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to any of the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 9]
7.	Alien Ownership and Control. Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 10]
8.	Program Service Certification. Applicant certifies that it is cognizant of and will comply with its obligations as a commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	<input type="radio"/> Yes <input checked="" type="radio"/> No
9.	Local Public Notice. Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.	<input type="radio"/> Yes <input checked="" type="radio"/> No
10.	Auction Authorization. If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable. An exhibit is required unless this question is inapplicable.	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A [Exhibit 11]
11.	Anti-Drug Abuse Act Certification. Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No
12.	Equal Employment Opportunity (EEO). If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a	<input type="radio"/> Yes <input checked="" type="radio"/> No

	Model EEO Program Report on FCC Form 396-A.	<input type="radio"/> N/A
13.	Petition for Rulemaking/Counterproposal to Add New FM Channel to FM Table of Allotments. If the application is being submitted concurrently with a Petition for Rulemaking or Counterproposal to Amend the FM Table of Allotments (47 C.F.R. section 73.202) to add a new FM channel allotment, petitioner/counter-proponent certifies that, if the FM channel allotment requested is allotted, petitioner/counter-proponent will apply to participate in the auction of the channel allotment requested and specified in this application.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing DEBORAH F. TURNER	Typed or Printed Title of Person Signing PRESIDENT AND GENERAL MANAGER
Signature	Date 8/24/2011

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III-D - DTV Engineering	
Complete Questions 1-5, and provide all data and information for the proposed facility, as requested in Technical Specifications, Items 1-13.	
<p>Pre-Transition Certification Checklist: An application concerning a pre-transition channel must complete questions 1(a)-(c), and 2-5. A correct answer of "Yes" to all of the questions will ensure an expeditious grant of a construction permit application to change pre-transition facilities. However, if the proposed facility is located within the Canadian or Mexican borders, coordination of the proposal under the appropriate treaties may be required prior to grant of the application. An answer of "No" will require additional evaluation of the applicable information in this form before a construction permit can be granted.</p> <p>Post-Transition Expedited Processing. An application concerning a post-transition channel must complete questions 1(a), (d)-(e), and 2-5. A station applying for a construction permit to build its post-transition channel will receive expedited processing if its application (1) does not seek to expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622(i) ("new DTV Table Appendix B"); (2) specifies facilities that match or closely approximate those defined in the new DTV Table Appendix B facilities; and (3) is filed within 45 days of the effective date of Section 73.616 of the rules adopted in the Report and Order in the Third DTV Periodic Review proceeding, MB Docket No. 07-91.</p>	
1. The proposed DTV facility complies with 47 C.F.R. Section 73.622 in the following respects:	
(a) It will operate on the DTV channel for this station as established in 47 C.F.R. Section 73.622.	<input checked="" type="radio"/> Yes <input type="radio"/> No
(b) It will operate a pre-transition facility from a transmitting antenna located within 5.0 km (3.1 miles) of the DTV reference site for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(c) It will operate a pre-transition facility with an effective radiated power (ERP) and antenna height above average terrain (HAAT) that do not exceed the DTV reference ERP and HAAT for this station as established in 47 C.F.R. Section 73.622.	<input type="radio"/> Yes <input type="radio"/> No
(d) It will operate at post-transition facilities that do not expand the noise-limited service contour in any direction beyond that established by Appendix B of the Seventh Report and Order in MB Docket No. 87-268 establishing the new DTV Table of Allotments in 47 C.F.R. § 73.622 (i) ("new DTV Table Appendix B").	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A

(e) It will operate at post-transition facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the new DTV Table Appendix B.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
2. The proposed facility will not have a significant environmental impact, including exposure of workers or the general public to levels of RF radiation exceeding the applicable health and safety guidelines, and therefore will not come within 47 C.F.R. Section 1.1307. Applicant must submit the Exhibit called for in Item 13.	<input checked="" type="radio"/> Yes <input type="radio"/> No
3. Pursuant to 47 C.F.R. Section 73.625, the DTV coverage contour of the proposed facility will encompass the allotted principal community.	<input checked="" type="radio"/> Yes <input type="radio"/> No
4. The requirements of 47 C.F.R. Section 73.1030 regarding notification to radio astronomy installations, radio receiving installations and FCC monitoring stations have either been satisfied or are not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
5. The antenna structure to be used by this facility has been registered by the Commission and will not require registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely effect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	<input checked="" type="radio"/> Yes <input type="radio"/> No

c. Mechanical Beam Tilt:
degrees toward azimuth
degrees True ☒ Not Applicable

Attach as an Exhibit all data specified in 47 C.F.R. Section 73.625(c).

[Exhibit
45]

d. Polarization:

☐ Horizontal ☐ Circular ☒ Elliptical

e. Directional Antenna Relative Field Values: ☐ Not applicable (Nondirectional)

[For a composite directional (not off-the-shelf) antenna, press the following button to fill in the relative field values subform.]

[Relative Field Values]

10e. Directional Antenna Relative Field Values

[Fill in this subform for a composite directional (not off-the-shelf) antenna, only.]

e. Directional Antenna Relative Field Values:

Rotation (Degrees): ☒ No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	0.955	10	0.945	20	0.943	30	0.949	40	0.962	50	0.975
60	0.985	70	0.978	80	0.982	90	0.97	100	0.956	110	0.946
120	0.942	130	0.948	140	0.962	150	0.979	160	0.994	170	1
180	0.991	190	0.965	200	0.923	210	0.87	220	0.816	230	0.77
240	0.741	250	0.733	260	0.75	270	0.787	280	0.838	290	0.892
300	0.941	310	0.977	320	0.997	330	0.999	340	0.989	350	0.972
Additional Azimuths		326	1								

Relative Field Polar Plot

If a directional antenna is proposed, the requirements of 47 C.F.R. Sections 73.625(c) must be satisfied. **Exhibit required.**

[Exhibit 46]

11. Does the proposed facility satisfy the pre-transition interference protection provisions of 47 C.F.R. Section 73.623(a) (Applicable only if **Certification Checklist** Items 1(a), (b), or (c) are answered "No.") and/or the post-transition interference protection provisions of 47 C.F.R. Section 73.616?

☒ Yes ☐ No

[Exhibit 47]

If "No," attach as an Exhibit justification therefor, including a summary of any related previously granted waivers.

12. If the proposed facility will not satisfy the coverage requirement of 47 C.F.R. Section 73.625, attach as an Exhibit justification therefore. (Applicable only if **Certification Checklist** item 3 is answered "No.")

[Exhibit 48]

13. **Environmental Protection Act.** Submit in an Exhibit the following:

[Exhibit 49]

If **Certification Checklist** Item 2 is answered "Yes," a brief explanation of why an

Environmental Assessment is not required. Also describe in the Exhibit the steps that will be taken to limit RF radiation exposure to the public and to persons authorized access to the tower site.

By checking "Yes" to **Certification Checklist** Item 2, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

If **Certification Checklist** Item 2 is answered "No," an Environmental Assessment as required by 47 C.F.R Section 1.1311.

PREPARERS CERTIFICATION ON SECTION III MUST BE COMPLETED AND SIGNED.

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name CHARLES A. COOPER		Relationship to Applicant (e.g., Consulting Engineer) TECHNICAL CONSULTANT	
Signature		Date 8/10/2011	
Mailing Address DU TREIL, LUNDIN & RACKLEY, INC. 201 FLETCHER AVENUE			
City SARASOTA	State or Country (if foreign address) FL		Zip Code 34237 -
Telephone Number (include area code) 9413296000	E-Mail Address (if available) CHARLES@DLR.COM		

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Exhibits

Exhibit 47

Description: COMPREHENSIVE TECHNICAL EXHIBIT

Attachment 47

Description
Comprehensive Technical Exhibit

TECHNICAL EXHIBIT
DTV APPLICATION
STATION WTVF(TV)
NASHVILLE, TENNESSEE
CH 25 1000 KW (MAX-DA) 429 M

Technical Narrative

This Technical Exhibit supports an application for construction permit for WTVF(TV) assigned to Nashville, Tennessee for its DTV operation. This application requests a construction permit (CP) for WTVF(TV) digital television operation on channel 25 with a directional effective radiated power of 1,000 kilowatts. This application is filed pursuant to the Report and Order in MB Docket 11-29 which substituted Channel 25 for WTVF(TV)'s present Channel 5 DTV facility.

Proposed Facilities

Station WTVF(TV) proposes to operate DTV channel 25 from its licensed DTV site. The antenna height above average terrain for the channel 25 DTV operations will be 429 meters. An allocation study was completed to ensure no prohibited interference would occur.

The proposed WTVF(TV) effective radiated power and antenna height above average terrain does not comply with Section 73.622(f)(8) of the Commission's Rules. However, the proposed WTVF Channel 25 coverage area would be smaller than that of the largest station in the market,¹ and therefore, pursuant to Section 73.622(f)(5) of the Commission's Rules, WTVF would be permitted this facility.

The proposed DTV transmitter site will continue to be located atop at the existing tower site. Therefore, the proposed site location is:

36° 16' 05" North Latitude
86° 47' 16" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1.

Figure 2 is a map showing the proposed DTV predicted coverage contour. The extent of the contours have been calculated using the normal FCC prediction method.²

¹ After WTVF departs full-service operation from Channel 5, WSMV-DT on Channel 10 assigned to Nashville would become the largest station in the market, defined by its geographic coverage. The WSMV-DT noise-limited coverage contour defined by FCC construction permit BPCDT-20080619AFW is 42,649 square kilometers whereas the proposed WTVF(TV) noise-limited coverage contour is 38,140 square kilometers.

² It is predicted that the switch to Channel 25 will result in the loss of service to approximately 182,000 persons (based upon an OET-69 analysis) in WTVF's service area on Channel 5, at the outer edge of the station's service area. NewsChannel 5 hopes to maintain service in the predicted outer-edge loss area through the operation of a high-power replacement digital translator on Channel 5, similar to the station's current replacement digital translator service on Channel 50. NewsChannel 5 recognizes that the operation of a replacement digital translator will be subject to the grant of a separate authorization for which it will apply upon WTVF's transition to Channel 25.

Allocation Considerations

The proposed WTVF(TV) Channel 25 facility meets the requirements of Section 73.623 of the FCC Rules concerning predicted interference to other facilities. Longley-Rice interference analyses were conducted pursuant to the requirements of the FCC Rules; OET Bulletin No. 69; and published FCC guidelines for preparation of such interference analyses. The Longley-Rice interference analyses were conducted using the software developed by du Treil, Lundin & Rackley, Inc. based on the FCC published software routines.³ Stations selected for analysis were determined pursuant to the distance requirements outlined in the FCC DTV Processing Guidelines Public Notice. The proposed facility will meet the 0.5% criterion outlined in the FCC Rules and published guidelines with respect to all considered stations.⁴

Radiofrequency Electromagnetic Field Exposure

The proposed WTVF(TV) facilities were evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level to workers and the general public. The radiation center for the proposed WTVF(TV) antenna is located 351 meters above ground level. The effective radiated power is 1000 kilowatts. A "worst case" downward relative field value of 0.5 is assumed for the antenna's

3 The duTreil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed.

4 Interference analysis results reflect the net change in interference to a given station considering the interference predicted to occur from all other stations (i.e. "masking") including the allotment facility for WTVF(TV). This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

downward radiation. The calculated power density at a point 2 meters above ground level is 0.07 mW/cm^2 . This is approximately 20 percent of the Commission's recommended limit of 0.36 mW/cm^2 for channel 25 for an "uncontrolled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed WTVF(TV) operation appears to be otherwise categorically excluded from environmental processing.

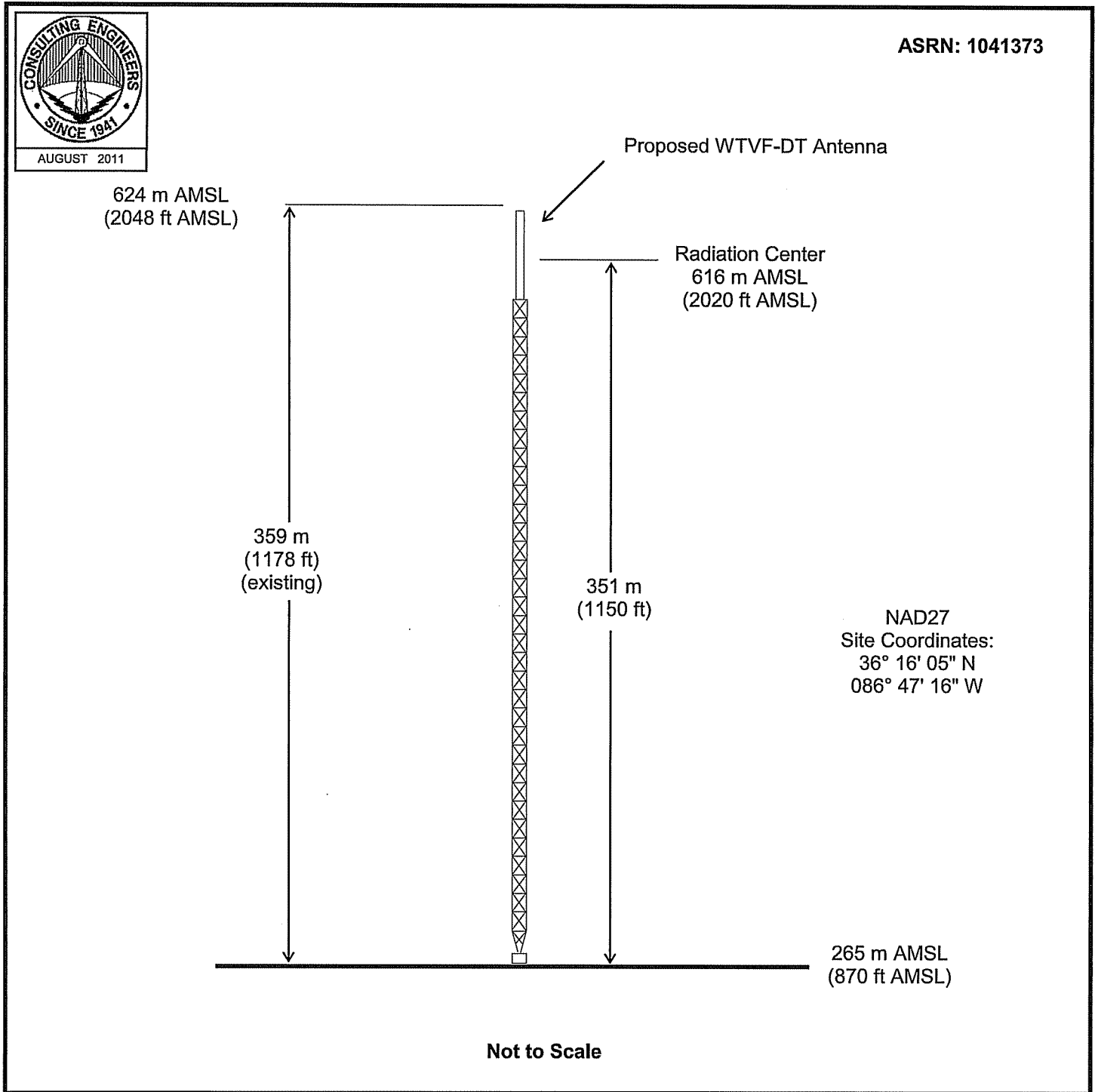
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

Charles Cooper

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 32437
941.329.6000

August 10, 2011

Figure 1



ANTENNA AND SUPPORTING STRUCTURE

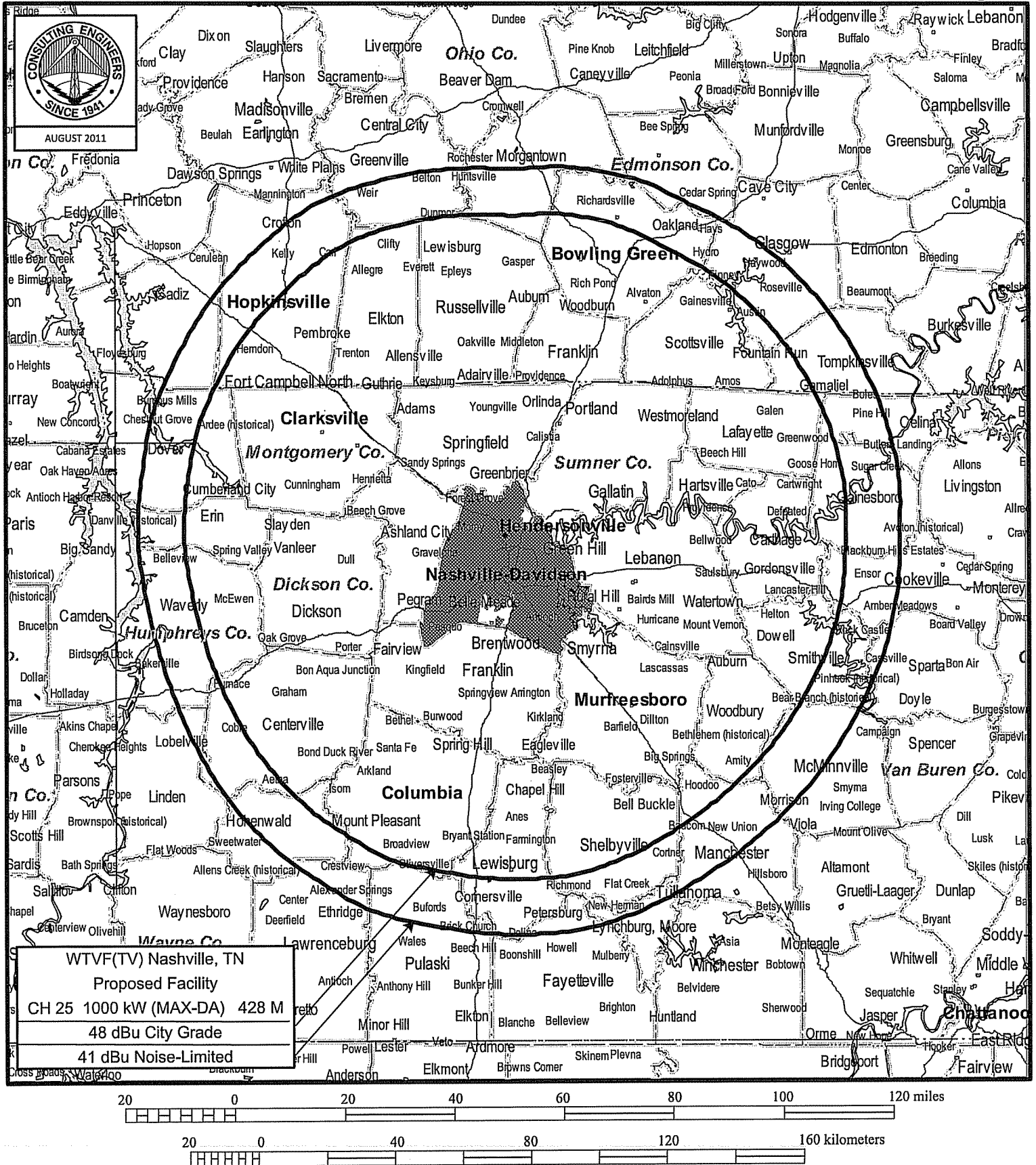
DTV STATION WTVF-DT

NASHVILLE, TENNESSEE

CH 25 1000 KW (MAX-DA) 428 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



FCC PREDICTED COVERAGE CONTOURS

STATION WTVF-TV

NASHVILLE, TENNESSEE

du Treil, Lundin & Rackley, Inc Sarasota, Florida

TECHNICAL EXHIBIT
DTV APPLICATION
STATION WTVF(TV)
NASHVILLE, TENNESSEE
CH 25 1000 KW (MAX-DA) 429 M

OET-69 Allocation Analysis

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/export/home/cdbs/pt_tvdb.sff

WARNING WARNING WARNING

The following list of station records has been excluded from the analysis due to the fact that they have the same state, city and channel as the proposed station - This could cause the program to not find a potential fail situation

You can force the program to include these records by setting the state of the proposed record to ZZ and re-running the analysis

WTVF-DR 25 NASHVILLE TN BPFS 20100830ACL

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-15-2011 Time: 14:08:24

Record Selected for Analysis

WTVF USERRECORD-01 NASHVILLE TN US
Channel 25 ERP 1000. kW HAAT 432. m RCAMSL 00616 m
Latitude 036-16-05 Longitude 0086-47-16
Status APP Zone 2 Border Site number: 01
Dir Antenna Make usr Model 00000000006018 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) does not meet maximum height/power limits
Channel 25 ERP = 1000.00 HAAT = 432.

Site number 1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	912.025	370.3	102.6
45.0	937.992	434.5	108.6
90.0	940.900	460.3	110.9
135.0	912.025	457.4	110.3
180.0	982.081	460.5	111.3
225.0	628.849	465.0	107.2
270.0	619.369	415.3	102.8
315.0	974.169	392.9	105.2

No spacing violations found to other full service stations from site # 01

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Call	City/State	ARN
25	WTVF	NASHVILLE TN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WHIQ	HUNTSVILLE AL	171.8	LIC	BLEDT	20060927ALU
25	WJMY-CA	DEMOPOLIS AL	384.3	LIC	BLTTA	20050404ADB
25	WJMY-CA	DEMOPOLIS AL	384.3	APP	BSTA	20060928AEP
25	WJMY-CA	DEMOPOLIS AL	363.9	CP	BDFCDTA	20090824ABD
25	WATL	ATLANTA GA	352.8	LIC	BLCDT	20020716AAH
25	WRTV	INDIANAPOLIS IN	406.8	LIC	BLCDT	20090623ACJ
25	WUNF-TV	ASHEVILLE NC	375.0	CP MOD	BMPEDT	20090511ANS +
25	WUNF-TV	ASHEVILLE NC	375.0	LIC	BLEDT	20030401BAI
25	WUNF-TV	ASHEVILLE NC	375.0	CP	BPEDT	20080619AEH
25	WPDP-LP	CLEVELAND TN	232.5	LIC	BLTTL	19990810JD
25	WKPT-LP	KINGSPORT TN	376.9	APP	BSTA	20060331AXC
25	WKPT-LP	KINGSPORT TN	376.9	LIC	BLTTA	20001211AEW
25	WPTY-TV	MEMPHIS TN	291.3	LIC	BLCDT	20050628AAP
26	WUWT-CD	UNION CITY TN	202.3	LIC	BLDTA	20090514AAD

+ Indicates station is part of a DTS

%%%

Analysis of Interference to Affected Station --1--

Channel	Call	City/State	Application	Ref. No.
24	WHIQ	HUNTSVILLE AL	BLEDT	20060927ALU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
23	WNAB	NASHVILLE TN	171.4	LIC	BLCDT	-20040712AAO
24	WUGA-TV	TOCCOA GA	272.1	APP	BPCDT	-20100827AAS
24	WUGA-TV	TOCCOA GA	272.1	APP	BPEDT	-20110707AIG
24	WUGA-TV	TOCCOA GA	289.3	LIC	BMLEDT	-20101223ABL
24	WMDN	MERIDIAN MS	334.4	LIC	BLCDT	-20090304ADW
25	WATL	ATLANTA GA	226.1	LIC	BLCDT	-20020716AAH
25	WTVF	NASHVILLE TN	171.8	APP	USERRECORD-01	

Total scenarios = 3

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 24A AL HUNTSVILLE BLEDT 20060927ALU LIC
 HAAT 338.0 m, ATV ERP 396.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1139401	28427.7
not affected by terrain losses	1095241	27144.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1568	112.6
lost to ATV IX only	1568	112.6
lost to all IX	1568	112.6

Potential Interfering Stations Included in above Scenario 1

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
24A MS MERIDIAN	BLCDT	20090304ADW	LIC

After Analysis

Results for: 24A AL HUNTSVILLE BLEDT 20060927ALU LIC
 HAAT 338.0 m, ATV ERP 396.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1139401	28427.7
not affected by terrain losses	1095241	27144.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2068	136.7
lost to ATV IX only	2068	136.7
lost to all IX	2068	136.7

Potential Interfering Stations Included in above Scenario 1

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
24A MS MERIDIAN	BLCDT	20090304ADW	LIC
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0457%

Result key: 2
 Scenario 2 Affected station 1
 Before Analysis

Results for: 24A AL HUNTSVILLE BLEDT 20060927ALU LIC
 HAAT 338.0 m, ATV ERP 396.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1139401	28427.7
not affected by terrain losses	1095241	27144.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1319	104.6
lost to ATV IX only	1319	104.6
lost to all IX	1319	104.6

Potential Interfering Stations Included in above Scenario 2

24A GA TOCCOA	BPCDT	20100827AAS	APP
24A MS MERIDIAN	BLCDT	20090304ADW	LIC

After Analysis

Results for: 24A AL HUNTSVILLE BLEDT 20060927ALU LIC
HAAT 338.0 m, ATV ERP 396.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1139401	28427.7
not affected by terrain losses	1095241	27144.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1819	128.7
lost to ATV IX only	1819	128.7
lost to all IX	1819	128.7

Potential Interfering Stations Included in above Scenario 2

24A GA TOCCOA	BPCDT	20100827AAS	APP
24A MS MERIDIAN	BLCDD	20090304ADW	LIC
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0457%

Result key: 3
Scenario 3 Affected station 1
Before Analysis

Results for: 24A AL HUNTSVILLE BLEDT 20060927ALU LIC
HAAT 338.0 m, ATV ERP 396.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1139401	28427.7
not affected by terrain losses	1095241	27144.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1319	104.6
lost to ATV IX only	1319	104.6
lost to all IX	1319	104.6

Potential Interfering Stations Included in above Scenario 3

24A GA TOCCOA	BPEDT	20110707AIG	APP
24A MS MERIDIAN	BLCDD	20090304ADW	LIC

After Analysis

Results for: 24A AL HUNTSVILLE BLEDT 20060927ALU LIC
HAAT 338.0 m, ATV ERP 396.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1139401	28427.7
not affected by terrain losses	1095241	27144.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1819	128.7
lost to ATV IX only	1819	128.7
lost to all IX	1819	128.7

Potential Interfering Stations Included in above Scenario 3

24A GA TOCCOA	BPEDT	20110707AIG	APP
24A MS MERIDIAN	BLCDD	20090304ADW	LIC
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0457%

Worst case new IX 0.0457% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	WJMY-CA	DEMOPOLIS AL	BLTTA	-20050404ADB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	WDBB	BESSEMER AL	69.9	LIC	BLCDT	-20060421ABG
21	WVTM-DR	BIRMINGHAM AL	102.1	APP	BPRM	-20110513AER
24	WMDN	MERIDIAN MS	117.9	LIC	BLCDT	-20090304ADW
25	WKNI-LP	ANDALUSIA AL	198.0	CP	BPTTL	-20061226AAF
25	WFNA	GULF SHORES AL	244.0	LIC	BLCDT	-20100614AQJ
25	WATL	ATLANTA GA	321.2	LIC	BLCDT	-20020716AAH
25	W25AD	COLUMBUS MS	104.5	APP	BDFCDTL	-20110623ADS
25	W25AD	COLUMBUS MS	104.5	LIC	BLTT	-20031126AOI
25	WMAO-TV	GREENWOOD MS	278.1	LIC	BLEDT	-20090612AAI
25	WPTY-TV	MEMPHIS TN	332.7	LIC	BLCDT	-20050628AAP
27	WAIQ	MONTGOMERY AL	135.5	LIC	BLEDT	-20060706ACK
28	WTO	HOMEWOOD AL	101.0	LIC	BLCDT	-20060406AAG
29	WBIH	SELMA AL	81.4	LIC	BLCDT	-20090619AAY
32	WNCF	MONTGOMERY AL	115.5	LIC	BLCDT	-20090428ABG
32	WNCF	MONTGOMERY AL	115.5	CP MOD	BMPCDT	-20080619AHK
33	WCFT-TV	TUSCALOOSA AL	69.1	LIC	BLCDT	-20091106ABO
39	WBIQ-DR	BIRMINGHAM AL	101.0	APP	BPRM	-20091215AFU
39	WBIQ	BIRMINGHAM AL	101.0	CP	BPEDT	-20100406AAQ
25	WTVF	NASHVILLE TN	384.3	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	WJMY-CA	DEMOPOLIS AL	BSTA	-20060928AEP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	WDBB	BESSEMER AL	69.9	LIC	BLCDT	-20060421ABG
21	WVTM-DR	BIRMINGHAM AL	102.1	APP	BPRM	-20110513AER
24	WMDN	MERIDIAN MS	117.9	LIC	BLCDT	-20090304ADW
25	WKNI-LP	ANDALUSIA AL	198.0	CP	BPTTL	-20061226AAF
25	WFNA	GULF SHORES AL	244.0	LIC	BLCDT	-20100614AQJ
25	WATL	ATLANTA GA	321.2	LIC	BLCDT	-20020716AAH
25	W25AD	COLUMBUS MS	104.5	APP	BDFCDTL	-20110623ADS
25	W25AD	COLUMBUS MS	104.5	LIC	BLTT	-20031126AOI
25	WMAO-TV	GREENWOOD MS	278.1	LIC	BLEDT	-20090612AAI
25	WPTY-TV	MEMPHIS TN	332.7	LIC	BLCDT	-20050628AAP
27	WAIQ	MONTGOMERY AL	135.5	LIC	BLEDT	-20060706ACK
28	WTO	HOMEWOOD AL	101.0	LIC	BLCDT	-20060406AAG
29	WBIH	SELMA AL	81.4	LIC	BLCDT	-20090619AAY
32	WNCF	MONTGOMERY AL	115.5	LIC	BLCDT	-20090428ABG
32	WNCF	MONTGOMERY AL	115.5	CP MOD	BMPCDT	-20080619AHK
33	WCFT-TV	TUSCALOOSA AL	69.1	LIC	BLCDT	-20091106ABO
39	WBIQ-DR	BIRMINGHAM AL	101.0	APP	BPRM	-20091215AFU
39	WBIQ	BIRMINGHAM AL	101.0	CP	BPEDT	-20100406AAQ
25	WTVF	NASHVILLE TN	384.3	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
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25 WJMY-CA DEMOPOLIS AL BDFCDTA -20090824ABD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WMDN	MERIDIAN MS	134.0	LIC	BLCDDT	-20090304ADW
25	WKNI-LP	ANDALUSIA AL	211.6	CP	BDFCDTL	-20070820AAU
25	WKNI-LP	ANDALUSIA AL	211.6	CP	BPTTL	-20061226AAF
25	WFNA	GULF SHORES AL	264.1	LIC	BLCDDT	-20100614AQJ
25	WATL	ATLANTA GA	309.3	LIC	BLCDDT	-20020716AAH
25	W25AD	COLUMBUS MS	96.3	APP	BDFCDTL	-20110623ADS
25	W25AD	COLUMBUS MS	96.3	LIC	BLTT	-20031126AOI
25	WMAO-TV	GREENWOOD MS	280.6	LIC	BLEDT	-20090612AAI
25	WPTY-TV	MEMPHIS TN	320.9	LIC	BLCDDT	-20050628AAP
26	WTJP-TV	GADSDEN AL	132.5	LIC	BLCDDT	-20110304ACB
25	WTVF	NASHVILLE TN	363.9	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	WATL	ATLANTA GA	BLCDDT	-20020716AAH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WHIQ	HUNTSVILLE AL	226.1	LIC	BLEDT	-20060927ALU
24	WUGA-TV	TOCCOA GA	79.1	APP	BPCDDT	-20100827AAS
24	WUGA-TV	TOCCOA GA	79.1	APP	BPEDT	-20110707AIG
24	WUGA-TV	TOCCOA GA	126.4	LIC	BMLEDT	-20101223ABL
25	WUNF-TV	ASHEVILLE NC	230.9	CP MOD	BMPEDT	-20090511ANS
25	WUNF-TV	ASHEVILLE NC	230.9	LIC	BLEDT	-20030401BAI
25	WUNF-TV	ASHEVILLE NC	207.2	CP MOD	BMPEDT	-20090511ANS
25	WUNF-TV	ASHEVILLE NC	230.9	CP	BPEDT	-20080619AEH
26	WTJP-TV	GADSDEN AL	194.8	LIC	BLCDDT	-20110304ACB
25	WTVF	NASHVILLE TN	352.8	APP	USERRECORD-01	

Total scenarios = 9

Result key: 4
Scenario 1 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	75862	823.3
lost to ATV IX only	75862	823.3
lost to all IX	75862	823.3

Potential Interfering Stations Included in above Scenario 1

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
25A NC ASHEVILLE	BMPEDT	20090511ANS	CP

After Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
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within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	78852	911.7
lost to ATV IX only	78852	911.7
lost to all IX	78852	911.7

Potential Interfering Stations Included in above Scenario 1

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
25A NC ASHEVILLE	BMPEDT	20090511ANS	CP
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0646%

Result key: 5
 Scenario 2 Affected station 5
 Before Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
 HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	56668	618.5
lost to ATV IX only	56668	618.5
lost to all IX	56668	618.5

Potential Interfering Stations Included in above Scenario 2

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
25A NC ASHEVILLE	BLEDT	20030401BAI	LIC

After Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
 HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	59658	706.8
lost to ATV IX only	59658	706.8
lost to all IX	59658	706.8

Potential Interfering Stations Included in above Scenario 2

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
25A NC ASHEVILLE	BLEDT	20030401BAI	LIC
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0643%

Result key: 6
 Scenario 3 Affected station 5
 Before Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
 HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	75094	811.3
lost to ATV IX only	75094	811.3
lost to all IX	75094	811.3

Potential Interfering Stations Included in above Scenario 3

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
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25A NC ASHEVILLE BPEDT 20080619AEH CP

After Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC

HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	78084	899.6
lost to ATV IX only	78084	899.6
lost to all IX	78084	899.6

Potential Interfering Stations Included in above Scenario 3

24A GA TOCCOA	BMLEDT	20101223ABL	LIC
25A NC ASHEVILLE	BPEDT	20080619AEH	CP
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0646%

Result key: 7
Scenario 4 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC

HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	97672	1124.5
lost to ATV IX only	97672	1124.5
lost to all IX	97672	1124.5

Potential Interfering Stations Included in above Scenario 4

24A GA TOCCOA	BPCDDT	20100827AAS	APP
25A NC ASHEVILLE	BMPEDT	20090511ANS	CP

After Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC

HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	100662	1212.9
lost to ATV IX only	100662	1212.9
lost to all IX	100662	1212.9

Potential Interfering Stations Included in above Scenario 4

24A GA TOCCOA	BPCDDT	20100827AAS	APP
25A NC ASHEVILLE	BMPEDT	20090511ANS	CP
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0649%

Result key: 8
Scenario 5 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC

HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0

lost to additional IX by ATV	79662	935.8
lost to ATV IX only	79662	935.8
lost to all IX	79662	935.8

Potential Interfering Stations Included in above Scenario 5

24A GA TOCCOA	BPCDT	20100827AAS	APP
25A NC ASHEVILLE	BLEDT	20030401BAI	LIC

After Analysis

Results for: 25A GA ATLANTA BLCDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	82652	1024.1
lost to ATV IX only	82652	1024.1
lost to all IX	82652	1024.1

Potential Interfering Stations Included in above Scenario 5

24A GA TOCCOA	BPCDT	20100827AAS	APP
25A NC ASHEVILLE	BLEDT	20030401BAI	LIC
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0646%

Result key: 9
Scenario 6 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLCDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	96712	1108.5
lost to ATV IX only	96712	1108.5
lost to all IX	96712	1108.5

Potential Interfering Stations Included in above Scenario 6

24A GA TOCCOA	BPCDT	20100827AAS	APP
25A NC ASHEVILLE	BPEDT	20080619AEH	CP

After Analysis

Results for: 25A GA ATLANTA BLCDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	99702	1196.8
lost to ATV IX only	99702	1196.8
lost to all IX	99702	1196.8

Potential Interfering Stations Included in above Scenario 6

24A GA TOCCOA	BPCDT	20100827AAS	APP
25A NC ASHEVILLE	BPEDT	20080619AEH	CP
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0649%

Result key: 10
Scenario 7 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLC DT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	97672	1124.5
lost to ATV IX only	97672	1124.5
lost to all IX	97672	1124.5

Potential Interfering Stations Included in above Scenario 7

24A GA TOCCOA	BPEDT	20110707AIG	APP
25A NC ASHEVILLE	BMPEDT	20090511ANS	CP

After Analysis

Results for: 25A GA ATLANTA BLC DT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	100662	1212.9
lost to ATV IX only	100662	1212.9
lost to all IX	100662	1212.9

Potential Interfering Stations Included in above Scenario 7

24A GA TOCCOA	BPEDT	20110707AIG	APP
25A NC ASHEVILLE	BMPEDT	20090511ANS	CP
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0649%

Result key: 11
Scenario 8 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLC DT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	79662	935.8
lost to ATV IX only	79662	935.8
lost to all IX	79662	935.8

Potential Interfering Stations Included in above Scenario 8

24A GA TOCCOA	BPEDT	20110707AIG	APP
25A NC ASHEVILLE	BLEDT	20030401BAI	LIC

After Analysis

Results for: 25A GA ATLANTA BLC DT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	82652	1024.1
lost to ATV IX only	82652	1024.1
lost to all IX	82652	1024.1

Potential Interfering Stations Included in above Scenario 8

24A GA TOCCOA	BPEDT	20110707AIG	APP
25A NC ASHEVILLE	BLEDT	20030401BAI	LIC

25A TN NASHVILLE USERRECORD01 APP

Percent new IX = 0.0646%

Result key: 12
Scenario 9 Affected station 5
Before Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	96712	1108.5
lost to ATV IX only	96712	1108.5
lost to all IX	96712	1108.5

Potential Interfering Stations Included in above Scenario 9

24A GA TOCCOA	BPEDT	20110707AIG	APP
25A NC ASHEVILLE	BPEDT	20080619AEH	CP

After Analysis

Results for: 25A GA ATLANTA BLCDDT 20020716AAH LIC
HAAT 332.0 m, ATV ERP 500.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4748499	29088.9
not affected by terrain losses	4706550	27992.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	99702	1196.8
lost to ATV IX only	99702	1196.8
lost to all IX	99702	1196.8

Potential Interfering Stations Included in above Scenario 9

24A GA TOCCOA	BPEDT	20110707AIG	APP
25A NC ASHEVILLE	BPEDT	20080619AEH	CP
25A TN NASHVILLE	USERRECORD01		APP

Percent new IX = 0.0649%

Worst case new IX 0.0649% Scenario 4

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Analysis of Interference to Affected Station 6

Channel	Call	City/State	Application Ref. No.
25	WRTV	INDIANAPOLIS IN	BLCDDT -20090623ACJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	WPTA	FORT WAYNE IN	158.9	LIC	BLCDDT -20031031AGU
24	WCVN-TV	COVINGTON KY	174.5	LIC	BLEDT -20020201ABJ
25	WEEK-TV	PEORIA IL	295.2	LIC	BLCDDT -20090413AER
25	WCGV-TV	MILWAUKEE WI	382.5	LIC	BLCDDT -20060609AAK
25	WCGV-TV	MILWAUKEE WI	382.6	CP	BPCDDT -20110217ABF
26	WCCU	URBANA IL	152.9	LIC	BLCDDT -20050317ADS
26	WCCU	URBANA IL	152.9	CP	BPCDDT -20080620AGB
26	WLKY-TV	LOUISVILLE KY	173.1	LIC	BLCDDT -20030129AFL
26	WBDT	SPRINGFIELD OH	167.3	LIC	BLCDDT -20090619AAV
25	WTVF	NASHVILLE TN	406.8	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

Analysis of current record

DTS STATION

Channel	Call	City/State	Application	Ref. No.
25	WUNF-TV	ASHEVILLE NC	BMPEDT	-20090511ANS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WUGA-TV	TOCCOA GA	143.4	APP	BPCDT	-20100827AAS
24	WUGA-TV	TOCCOA GA	143.4	APP	BPEDT	-20110707AIG
24	WUGA-TV	TOCCOA GA	95.8	LIC	BMLEDT	-20101223ABL
25	WATL	ATLANTA GA	207.2	LIC	BLCDT	-20020716AAH
25	WUNC-TV	CHAPEL HILL NC	377.8	LIC	BLEDT	-20090824ABP
26	WATE-TV	KNOXVILLE TN	81.3	LIC	BMLCDT	-20041203AEG
25	WTVF	NASHVILLE TN	324.3	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	WUNF-TV	ASHEVILLE NC	BLEDT	-20030401BAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WUGA-TV	TOCCOA GA	157.1	APP	BPCDT	-20100827AAS
24	WUGA-TV	TOCCOA GA	157.1	APP	BPEDT	-20110707AIG
24	WUGA-TV	TOCCOA GA	106.1	LIC	BMLEDT	-20101223ABL
24	WKPI-TV	PIKEVILLE KY	207.7	LIC	BLEDT	-20020313ABL
25	WATL	ATLANTA GA	230.9	LIC	BLCDT	-20020716AAH
25	WUNC-TV	CHAPEL HILL NC	327.9	LIC	BLEDT	-20090824ABP
26	WATE-TV	KNOXVILLE TN	124.8	LIC	BMLCDT	-20041203AEG
25	WTVF	NASHVILLE TN	375.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
25	WUNF-TV	ASHEVILLE NC	BPEDT	-20080619AEH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WUGA-TV	TOCCOA GA	157.1	APP	BPCDT	-20100827AAS
24	WUGA-TV	TOCCOA GA	157.1	APP	BPEDT	-20110707AIG
24	WUGA-TV	TOCCOA GA	106.1	LIC	BMLEDT	-20101223ABL
24	WKPI-TV	PIKEVILLE KY	207.7	LIC	BLEDT	-20020313ABL
25	WATL	ATLANTA GA	230.9	LIC	BLCDT	-20020716AAH
25	WUNC-TV	CHAPEL HILL NC	327.9	LIC	BLEDT	-20090824ABP
26	WATE-TV	KNOXVILLE TN	124.8	LIC	BMLCDT	-20041203AEG
25	WTVF	NASHVILLE TN	375.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WPDP-LP	CLEVELAND TN	BLTTL -19990810JD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WKOP-TV	KNOXVILLE TN	113.1	LIC	BLEDT -20040405ACC
22	WCTE	COOKEVILLE TN	132.6	LIC	BLEDT -20090729ACP
22	WCTE	COOKEVILLE TN	132.6	CP MOD	BMPEDT -20100813AAA
22	WCTE	COOKEVILLE TN	132.6	CP MOD	BMPEDT -20090430AAC
23	WPXK-TV	JELICO TN	114.5	CP	BPCDT -20080620AGZ
23	WPXK-TV	JELICO TN	123.4	LIC	BLCDT -20020510AAJ
24	WUGA-TV	TOCCOA GA	128.3	LIC	BMLCDT -20101223ABL
25	WATL	ATLANTA GA	149.8	LIC	BLCDT -20020716AAH
25	WUNF-TV	ASHEVILLE NC	172.3	CP MOD	BMPEDT -20090511ANS
25	WUNF-TV	ASHEVILLE NC	172.3	LIC	BLEDT -20030401BAI
25	WUNF-TV	ASHEVILLE NC	123.8	CP MOD	BMPEDT -20090511ANS
25	WUNF-TV	ASHEVILLE NC	172.3	CP	BPEDT -20080619AEH
25	WWWB-LP	LIVINGSTON TN	138.5	LIC	BLTTL -20080818ABC
26	WATE-TV	KNOXVILLE TN	114.5	LIC	BMLCDT -20041203AEG
29	WTCI	CHATTANOOGA TN	60.4	LIC	BLEDT -20060629ACO
33	WNGH-TV	CHATSORTH GA	43.4	LIC	BLEDT -20080509AAN
40	WDSI-TV	CHATTANOOGA TN	60.1	LIC	BLCDT -20051011ABS
25	WTVF	NASHVILLE TN	232.5	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WKPT-LP	KINGSPORT TN	BSTA -20060331AXC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WUNE-TV	LINVILLE NC	84.2	LIC	BLEDT -20091118ADR
17	WKOP-TV	KNOXVILLE TN	136.2	LIC	BLEDT -20040405ACC
23	WPXK-TV	JELICO TN	134.7	CP	BPCDT -20080620AGZ
24	WKPI-TV	PIKEVILLE KY	84.5	LIC	BLEDT -20020313ABL
25	WATL	ATLANTA GA	341.6	LIC	BLCDT -20020716AAH
25	WUNF-TV	ASHEVILLE NC	123.3	CP MOD	BMPEDT -20090511ANS
25	WUNF-TV	ASHEVILLE NC	123.3	LIC	BLEDT -20030401BAI
25	WUNF-TV	ASHEVILLE NC	134.5	CP MOD	BMPEDT -20090511ANS
25	WUNF-TV	ASHEVILLE NC	123.3	CP	BPEDT -20080619AEH
25	WUNC-TV	CHAPEL HILL NC	315.5	LIC	BLEDT -20090824ABP
25	WDMC-LP	CHARLOTTE NC	222.2	CP	BPTTL -20060323ABK
25	W25AY-D	JEFFERSON NC	98.4	LIC	BLDFT -20100503ABO
27	WUNW	CANTON NC	110.3	CP	BPEDT -20110114ABP
27	WKPT-TV	KINGSPORT TN	41.6	LIC	BLCDT -20050629ACG
29	WJHL-DR	JOHNSON CITY TN	41.5	APP	BPRM -20110504ADC
29	WCYB-DR	BRISTOL VA	43.7	APP	BPRM -20110526AJO
32	WSBN-TV	NORTON VA	41.4	LIC	BLEDT -20030428ABR
40	WHKY-TV	HICKORY NC	143.2	LIC	BLCDT -20060630ABW
40	WHKY-TV	HICKORY NC	143.4	CP	BPCDT -20080619AAH
40	WHKY-TV	HICKORY NC	143.4	CP MOD	BMPCDT -20090310ADE
40	WLFB	BLUEFIELD WV	140.8	LIC	BLCDT -20090622ADS
25	WTVF	NASHVILLE TN	376.9	APP	USERRECORD-01
40	WHKY-TV	HICKORY NC		CP MOD	BMPCDT -20090310ADE

~~Proposed station is beyond the site to nearest cell evaluation distance~~

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WKPT-LP	KINGSPORT TN	BLTTA -20001211AEW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WUNE-TV	LINVILLE NC	84.2	LIC	BLEDT -20091118ADR
17	WKOP-TV	KNOXVILLE TN	136.2	LIC	BLEDT -20040405ACC
23	WPXK-TV	JELICO TN	134.7	CP	BPCDT -20080620AGZ
24	WKPI-TV	PIKEVILLE KY	84.5	LIC	BLEDT -20020313ABL
25	WATL	ATLANTA GA	341.6	LIC	BLCDT -20020716AAH
25	WUNF-TV	ASHEVILLE NC	123.3	CP MOD	BMPEDT -20090511ANS
25	WUNF-TV	ASHEVILLE NC	123.3	LIC	BLEDT -20030401BAI
25	WUNF-TV	ASHEVILLE NC	134.5	CP MOD	BMPEDT -20090511ANS
25	WUNF-TV	ASHEVILLE NC	123.3	CP	BPEDT -20080619AEH
25	WUNC-TV	CHAPEL HILL NC	315.5	LIC	BLEDT -20090824ABP
25	WDMC-LP	CHARLOTTE NC	222.2	CP	BPTTL -20060323ABK
25	W25AY-D	JEFFERSON NC	98.4	LIC	BLDTT -20100503ABO
27	WUNW	CANTON NC	110.3	CP	BPEDT -20110114ABP
27	WKPT-TV	KINGSPORT TN	41.6	LIC	BLCDT -20050629ACG
29	WJHL-DR	JOHNSON CITY TN	41.5	APP	BPRM -20110504ADC
29	WCYB-DR	BRISTOL VA	43.7	APP	BPRM -20110526AJ0
32	WSBN-TV	NORTON VA	41.4	LIC	BLEDT -20030428ABR
40	WHKY-TV	HICKORY NC	143.2	LIC	BLCDT -20060630ABW
40	WHKY-TV	HICKORY NC	143.4	CP	BPCDT -20080619AAH
40	WHKY-TV	HICKORY NC	143.4	CP MOD	BMPEDT -20090310ADE
40	WLFB	BLUEFIELD WV	140.8	LIC	BLCDT -20090622ADS
25	WTVF	NASHVILLE TN	376.9	APP	USERRECORD-01
40	WHKY-TV	HICKORY NC		CP MOD	BMPEDT -20090310ADE

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WPTY-TV	MEMPHIS TN	BLCDT -20050628AAP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	KVTN-DT	PINE BLUFF AR	222.6	LIC	BLCDT -20071231AFB
25	WMAO-TV	GREENWOOD MS	222.5	LIC	BLEDT -20090612AAI
25	WTVF	NASHVILLE TN	291.3	APP	USERRECORD-01

Total scenarios = 1

Result key: 13

Scenario 1 Affected station 13

Before Analysis

Results for: 25A TN MEMPHIS BLCDT 20050628AAP LIC
HAAT 340.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1670209	33340.7
not affected by terrain losses	1665850	33240.8
lost to NTSC IX	0	0.0

lost to additional IX by ATV	26585	1326.8
lost to ATV IX only	26585	1326.8
lost to all IX	26585	1326.8

Potential Interfering Stations Included in above Scenario 1

25A MS GREENWOOD BLEDT 20090612AAI LIC

After Analysis

Results for: 25A TN MEMPHIS BLCDDT 20050628AAP LIC

HAAT 340.0 m, ATV ERP 1000.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	1670209	33340.7
not affected by terrain losses	1665850	33240.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31029	1502.6
lost to ATV IX only	31029	1502.6
lost to all IX	31029	1502.6

Potential Interfering Stations Included in above Scenario 1

25A MS GREENWOOD BLEDT 20090612AAI LIC
25A TN NASHVILLE USERRECORD01 APP

Percent new IX = 0.2711%

Worst case new IX 0.2711% Scenario 1

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application Ref. No.
26	WUWT-CD	UNION CITY TN	BLDTA -20090514AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
26	WTJP-TV	GADSDEN AL	375.3	LIC	BLCDDT -20110304ACB
26	NEW	PARAGOULD AR	124.8	APP	BNPDTL -20101019AAO
26	NEW	EVANSVILLE IN	207.8	APP	BNPDTL -20090825AZW
26	WLKY-TV	LOUISVILLE KY	354.7	LIC	BLCDDT -20030129AFL
26	NEW	CAPE GIRARDEAU MO	125.0	APP	BNPDTL -20100907ACA
26	KPLR-TV	ST. LOUIS MO	262.0	CP	BPCDDT -20080620AFX
26	KPLR-TV	ST. LOUIS MO	262.3	LIC	BLCDDT -20030812ABY
26	WPGF-LP	MEMPHIS TN	154.4	CP	BPTTL -20080814ABC
26	WNTU-LP	NASHVILLE TN	204.6	LIC	BLTTL -20001018ABZ
27	WJTE-LD	JACKSON TN	86.4	CP	BDCCDDT -20061030ANV
27	NEW	JACKSON TN	86.4	APP	BNPDTL -20100831AAY
25	WTVF	NASHVILLE TN	202.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application Ref. No.
25	WTVF	NASHVILLE TN	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
------	------	------------	----------	--------	----------------------

24	WHIQ	HUNTSVILLE AL	171.8	LIC	BLEDT	-20060927ALU
25	WATL	ATLANTA GA	352.8	LIC	BLCDDT	-20020716AAH
25	WRTV	INDIANAPOLIS IN	406.8	LIC	BLCDDT	-20090623ACJ
25	WUNF-TV	ASHEVILLE NC	375.0	CP MOD	BMPEDT	-20090511ANS
25	WUNF-TV	ASHEVILLE NC	375.0	LIC	BLEDT	-20030401BAI
25	WUNF-TV	ASHEVILLE NC	324.3	CP MOD	BMPEDT	-20090511ANS
25	WUNF-TV	ASHEVILLE NC	375.0	CP	BPEDT	-20080619AEH
25	WPTY-TV	MEMPHIS TN	291.3	LIC	BLCDDT	-20050628AAP

Total scenarios = 1

Result key: 14
 Scenario 1 Affected station 15
 Before Analysis

Results for: 25A TN NASHVILLE USERRECORD01 APP
 HAAT 432.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2037752	38138.8
not affected by terrain losses	2024480	36895.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11794	719.8
lost to ATV IX only	11794	719.8
lost to all IX	11794	719.8

Potential Interfering Stations Included in above Scenario 1

24A AL HUNTSVILLE	BLEDT	20060927ALU	LIC
25A GA ATLANTA	BLCDDT	20020716AAH	LIC
25A TN MEMPHIS	BLCDDT	20050628AAP	LIC

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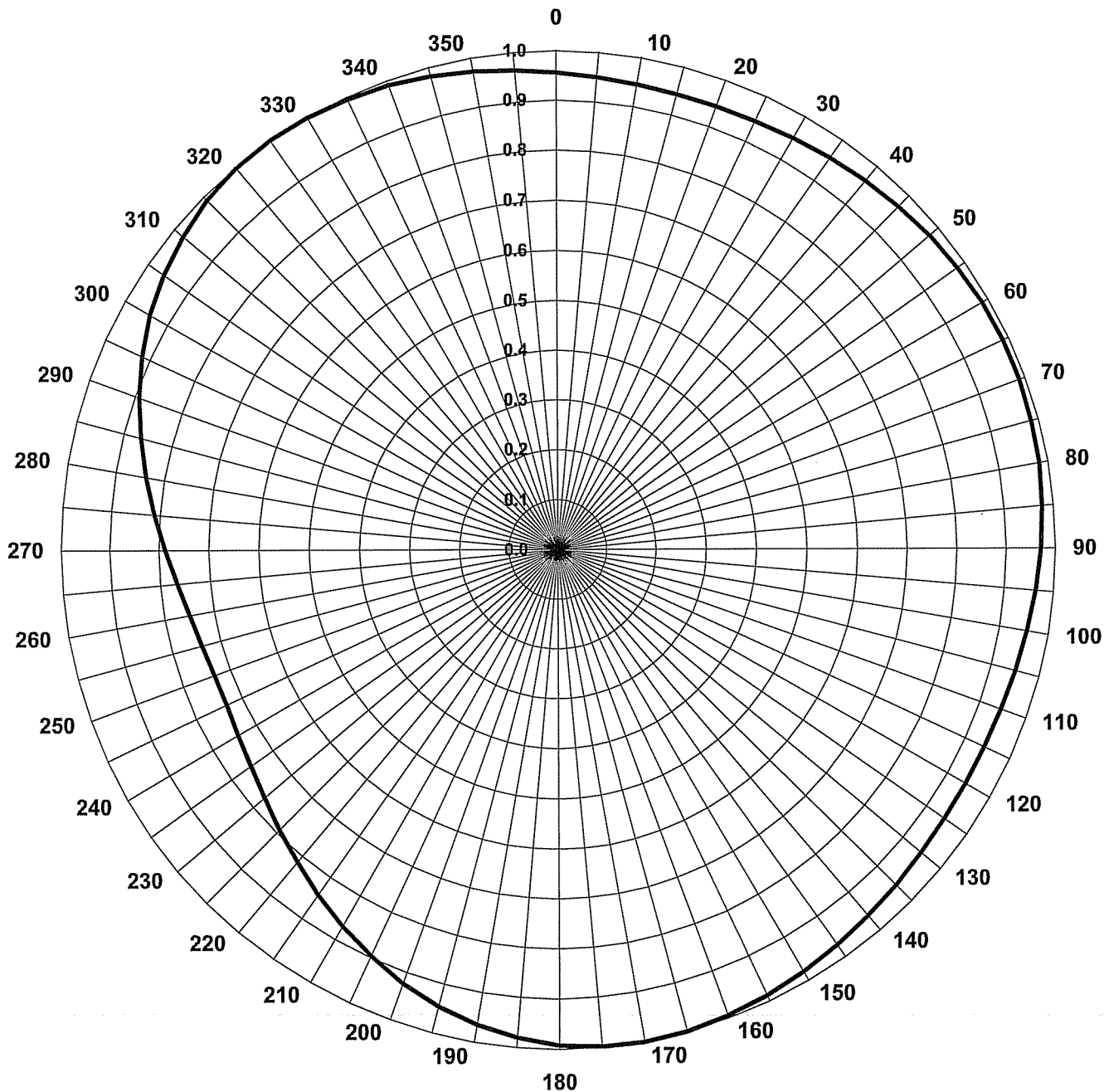
FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

APPENDIX

TRANSMITTING ANTENNA VERTICAL AND HORIZONTAL PLANE PATTERN

AZIMUTH PATTERN**TYPE:****ATW-OX****Numeric****dB****Directivity:****1.16****0.64****Peak(s) at:****Polarization:****Horizontal****Frequency:****25 (Digital)****Location:****Nashville, TN**

Note: Pattern shape and directivity may vary with channel and mounting configuration.



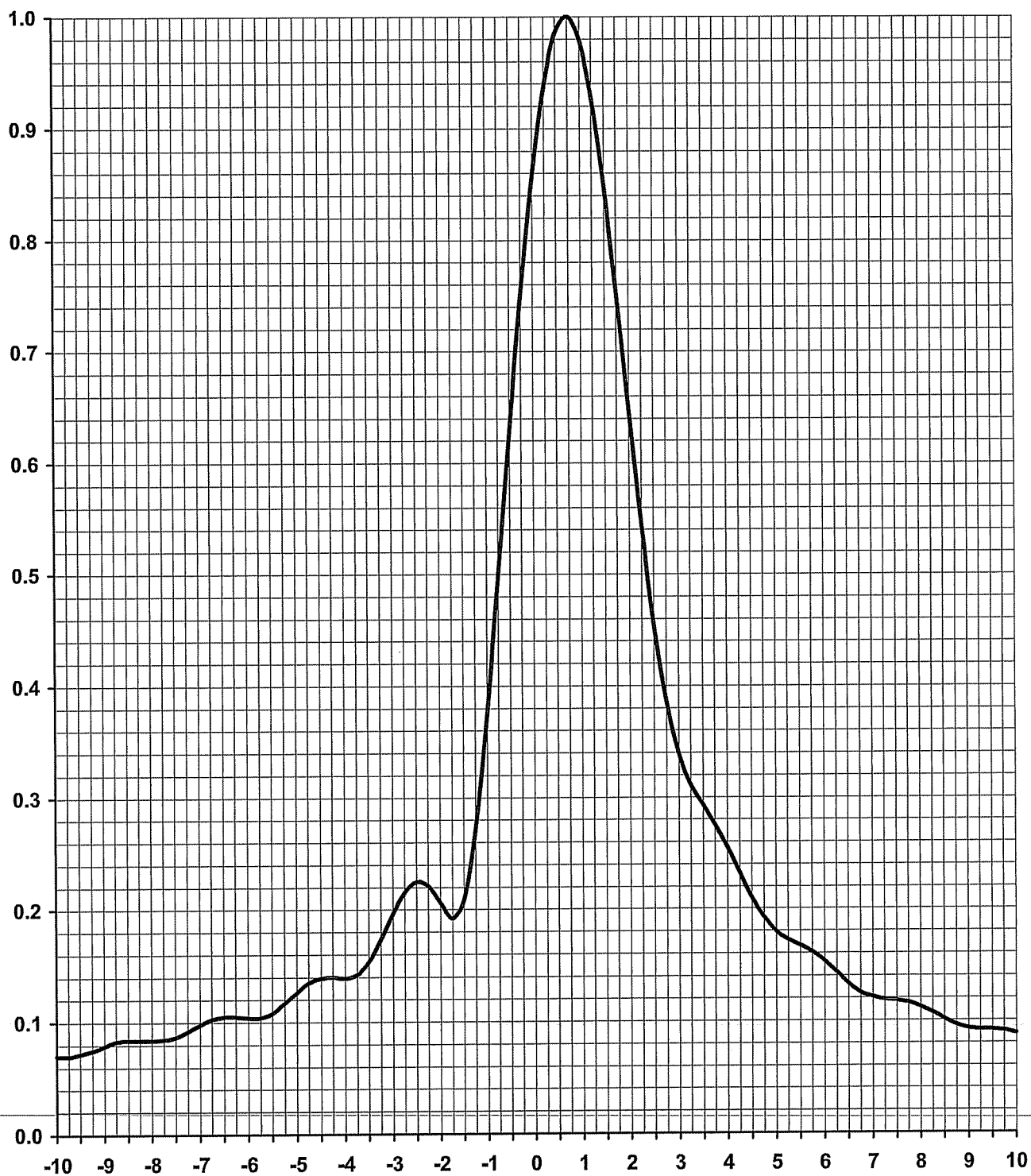
TABULATED DATA FOR AZIMUTH PATTERN**TYPE: ATW-OX**

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
0	0.955	-0.40	92	0.967	-0.29	184	0.983	-0.15	276	0.816	-1.77
2	0.953	-0.42	94	0.965	-0.31	186	0.977	-0.20	278	0.827	-1.65
4	0.950	-0.45	96	0.962	-0.34	188	0.971	-0.26	280	0.838	-1.54
6	0.948	-0.46	98	0.959	-0.36	190	0.965	-0.31	282	0.848	-1.43
8	0.946	-0.48	100	0.956	-0.39	192	0.958	-0.37	284	0.859	-1.32
10	0.945	-0.49	102	0.954	-0.41	194	0.950	-0.45	286	0.870	-1.21
12	0.943	-0.51	104	0.952	-0.43	196	0.941	-0.53	288	0.881	-1.10
14	0.943	-0.51	106	0.949	-0.45	198	0.932	-0.61	290	0.892	-0.99
16	0.942	-0.52	108	0.947	-0.47	200	0.923	-0.70	292	0.903	-0.89
18	0.942	-0.52	110	0.946	-0.48	202	0.913	-0.79	294	0.913	-0.79
20	0.943	-0.51	112	0.944	-0.50	204	0.903	-0.89	296	0.923	-0.70
22	0.943	-0.51	114	0.943	-0.51	206	0.892	-0.99	298	0.932	-0.61
24	0.944	-0.50	116	0.943	-0.51	208	0.881	-1.10	300	0.941	-0.53
26	0.946	-0.48	118	0.942	-0.52	210	0.870	-1.21	302	0.950	-0.45
28	0.947	-0.47	120	0.942	-0.52	212	0.859	-1.32	304	0.958	-0.37
30	0.949	-0.45	122	0.943	-0.51	214	0.848	-1.43	306	0.965	-0.31
32	0.952	-0.43	124	0.943	-0.51	216	0.838	-1.54	308	0.971	-0.26
34	0.954	-0.41	126	0.945	-0.49	218	0.827	-1.65	310	0.977	-0.20
36	0.956	-0.39	128	0.946	-0.48	220	0.816	-1.77	312	0.983	-0.15
38	0.959	-0.36	130	0.948	-0.46	222	0.806	-1.87	314	0.987	-0.11
40	0.962	-0.34	132	0.950	-0.45	224	0.796	-1.98	316	0.991	-0.08
42	0.965	-0.31	134	0.953	-0.42	226	0.787	-2.08	318	0.994	-0.05
44	0.967	-0.29	136	0.955	-0.40	228	0.778	-2.18	320	0.997	-0.03
46	0.970	-0.26	138	0.958	-0.37	230	0.770	-2.27	322	0.998	-0.02
48	0.973	-0.24	140	0.962	-0.34	232	0.763	-2.35	324	1.000	0.00
50	0.975	-0.22	142	0.965	-0.31	234	0.756	-2.43	326	1.000	0.00
52	0.977	-0.20	144	0.968	-0.28	236	0.750	-2.50	328	1.000	0.00
54	0.980	-0.18	146	0.972	-0.25	238	0.745	-2.56	330	0.999	-0.01
56	0.982	-0.16	148	0.976	-0.21	240	0.741	-2.60	332	0.998	-0.02
58	0.983	-0.15	150	0.979	-0.18	242	0.737	-2.65	334	0.996	-0.03
60	0.985	-0.13	152	0.982	-0.16	244	0.735	-2.67	336	0.994	-0.05
62	0.986	-0.12	154	0.986	-0.12	246	0.733	-2.70	338	0.992	-0.07
64	0.987	-0.11	156	0.989	-0.10	248	0.733	-2.70	340	0.989	-0.10
66	0.987	-0.11	158	0.992	-0.07	250	0.733	-2.70	342	0.986	-0.12
68	0.987	-0.11	160	0.994	-0.05	252	0.735	-2.67	344	0.982	-0.16
70	0.987	-0.11	162	0.996	-0.03	254	0.737	-2.65	346	0.979	-0.18
72	0.987	-0.11	164	0.998	-0.02	256	0.741	-2.60	348	0.976	-0.21
74	0.986	-0.12	166	0.999	-0.01	258	0.745	-2.56	350	0.972	-0.25
76	0.985	-0.13	168	1.000	0.00	260	0.750	-2.50	352	0.968	-0.28
78	0.983	-0.15	170	1.000	0.00	262	0.756	-2.43	354	0.965	-0.31
80	0.982	-0.16	172	1.000	0.00	264	0.763	-2.35	356	0.962	-0.34
82	0.980	-0.18	174	0.998	-0.02	266	0.770	-2.27	358	0.958	-0.37
84	0.977	-0.20	176	0.997	-0.03	268	0.778	-2.18	360	0.955	-0.40
86	0.975	-0.22	178	0.994	-0.05	270	0.787	-2.08			
88	0.973	-0.24	180	0.991	-0.08	272	0.796	-1.98			
90	0.970	-0.26	182	0.987	-0.11	274	0.806	-1.87			

ELEVATION PATTERN

TYPE:	ATW24HS3H	
Directivity:	Numeric	dBd
Main Lobe:	24.00	13.80
Horizontal:	17.59	12.45

Frequency:	25 (Digital)
Location:	Nashville, TN
Beam Tilt:	0.75
Polarization:	Horizontal



TABULATED DATA FOR ELEVATION PATTERN

TYPE: ATW24HS3H
-5 to 10 degrees in 0.25 increments
10 to 90 degrees in 0.50 increments

ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB	ANGLE	FIELD	dB
-10.00	0.070	-23.10	2.00	0.648	-3.77	18.00	0.050	-26.02	42.00	0.029	-30.75	66.00	0.035	-29.12
-9.75	0.070	-23.10	2.25	0.545	-5.27	18.50	0.048	-26.38	42.50	0.028	-31.06	66.50	0.034	-29.37
-9.50	0.072	-22.85	2.50	0.455	-6.84	19.00	0.045	-26.94	43.00	0.028	-31.06	67.00	0.033	-29.63
-9.25	0.075	-22.50	2.75	0.386	-8.27	19.50	0.044	-27.13	43.50	0.029	-30.75	67.50	0.033	-29.63
-9.00	0.079	-22.05	3.00	0.339	-9.40	20.00	0.044	-27.13	44.00	0.030	-30.46	68.00	0.033	-29.63
-8.75	0.083	-21.62	3.25	0.311	-10.14	20.50	0.044	-27.13	44.50	0.030	-30.46	68.50	0.035	-29.12
-8.50	0.084	-21.51	3.50	0.293	-10.66	21.00	0.041	-27.74	45.00	0.028	-31.06	69.00	0.036	-28.87
-8.25	0.084	-21.51	3.75	0.275	-11.21	21.50	0.040	-27.96	45.50	0.028	-31.06	69.50	0.037	-28.64
-8.00	0.084	-21.51	4.00	0.255	-11.87	22.00	0.041	-27.74	46.00	0.029	-30.75	70.00	0.037	-28.64
-7.75	0.085	-21.41	4.25	0.232	-12.69	22.50	0.041	-27.74	46.50	0.030	-30.46	70.50	0.037	-28.64
-7.50	0.087	-21.21	4.50	0.210	-13.56	23.00	0.039	-28.18	47.00	0.031	-30.17	71.00	0.036	-28.87
-7.25	0.092	-20.72	4.75	0.192	-14.33	23.50	0.038	-28.40	47.50	0.030	-30.46	71.50	0.035	-29.12
-7.00	0.098	-20.18	5.00	0.179	-14.94	24.00	0.038	-28.40	48.00	0.029	-30.75	72.00	0.034	-29.37
-6.75	0.103	-19.74	5.25	0.172	-15.29	24.50	0.039	-28.18	48.50	0.029	-30.75	72.50	0.033	-29.63
-6.50	0.105	-19.58	5.50	0.167	-15.55	25.00	0.038	-28.40	49.00	0.029	-30.75	73.00	0.032	-29.90
-6.25	0.105	-19.58	5.75	0.161	-15.86	25.50	0.036	-28.87	49.50	0.030	-30.46	73.50	0.032	-29.90
-6.00	0.104	-19.66	6.00	0.153	-16.31	26.00	0.036	-28.87	50.00	0.031	-30.17	74.00	0.033	-29.63
-5.75	0.104	-19.66	6.25	0.143	-16.89	26.50	0.036	-28.87	50.50	0.031	-30.17	74.50	0.034	-29.37
-5.50	0.108	-19.33	6.50	0.133	-17.52	27.00	0.036	-28.87	51.00	0.030	-30.46	75.00	0.036	-28.87
-5.25	0.117	-18.64	6.75	0.125	-18.06	27.50	0.034	-29.37	51.50	0.029	-30.75	75.50	0.037	-28.64
-5.00	0.126	-17.99	7.00	0.121	-18.34	28.00	0.033	-29.63	52.00	0.029	-30.75	76.00	0.038	-28.40
-4.75	0.135	-17.39	7.25	0.119	-18.49	28.50	0.034	-29.37	52.50	0.030	-30.46	76.50	0.039	-28.18
-4.50	0.139	-17.14	7.50	0.118	-18.56	29.00	0.035	-29.12	53.00	0.031	-30.17	77.00	0.039	-28.18
-4.25	0.140	-17.08	7.75	0.116	-18.71	29.50	0.034	-29.37	53.50	0.031	-30.17	77.50	0.038	-28.40
-4.00	0.139	-17.14	8.00	0.112	-19.02	30.00	0.032	-29.90	54.00	0.030	-30.46	78.00	0.037	-28.64
-3.75	0.142	-16.95	8.25	0.107	-19.41	30.50	0.032	-29.90	54.50	0.030	-30.46	78.50	0.035	-29.12
-3.50	0.153	-16.31	8.50	0.101	-19.91	31.00	0.033	-29.63	55.00	0.029	-30.75	79.00	0.033	-29.63
-3.25	0.173	-15.24	8.75	0.096	-20.35	31.50	0.033	-29.63	55.50	0.030	-30.46	79.50	0.031	-30.17
-3.00	0.196	-14.15	9.00	0.093	-20.63	32.00	0.032	-29.90	56.00	0.032	-29.90	80.00	0.029	-30.75
-2.75	0.215	-13.35	9.25	0.092	-20.72	32.50	0.031	-30.17	56.50	0.033	-29.63	80.50	0.026	-31.70
-2.50	0.225	-12.96	9.50	0.092	-20.72	33.00	0.031	-30.17	57.00	0.033	-29.63	81.00	0.024	-32.40
-2.25	0.221	-13.11	9.75	0.091	-20.82	33.50	0.032	-29.90	57.50	0.032	-29.90	81.50	0.022	-33.15
-2.00	0.206	-13.72	10.00	0.088	-21.11	34.00	0.032	-29.90	58.00	0.031	-30.17	82.00	0.020	-33.98
-1.75	0.192	-14.33	10.50	0.080	-21.94	34.50	0.031	-30.17	58.50	0.031	-30.17	82.50	0.018	-34.89
-1.50	0.208	-13.64	11.00	0.075	-22.50	35.00	0.030	-30.46	59.00	0.031	-30.17	83.00	0.017	-35.39
-1.25	0.272	-11.31	11.50	0.075	-22.50	35.50	0.030	-30.46	59.50	0.032	-29.90	83.50	0.016	-35.92
-1.00	0.375	-8.52	12.00	0.073	-22.73	36.00	0.031	-30.17	60.00	0.033	-29.63	84.00	0.015	-36.48
-0.75	0.498	-6.06	12.50	0.067	-23.48	36.50	0.031	-30.17	60.50	0.034	-29.37	84.50	0.014	-37.08
-0.50	0.627	-4.05	13.00	0.063	-24.01	37.00	0.030	-30.46	61.00	0.034	-29.37	85.00	0.013	-37.72
-0.25	0.750	-2.50	13.50	0.063	-24.01	37.50	0.029	-30.75	61.50	0.033	-29.63	85.50	0.012	-38.42
0.00	0.856	-1.35	14.00	0.062	-24.15	38.00	0.030	-30.46	62.00	0.032	-29.90	86.00	0.011	-39.17
0.25	0.936	-0.57	14.50	0.058	-24.73	38.50	0.031	-30.17	62.50	0.032	-29.90	86.50	0.010	-40.00
0.50	0.985	-0.13	15.00	0.055	-25.19	39.00	0.031	-30.17	63.00	0.033	-29.63	87.00	0.009	-40.92
0.75	1.000	0.00	15.50	0.055	-25.19	39.50	0.030	-30.46	63.50	0.034	-29.37	87.50	0.008	-41.94
1.00	0.980	-0.18	16.00	0.055	-25.19	40.00	0.029	-30.75	64.00	0.035	-29.12	88.00	0.006	-44.44
1.25	0.928	-0.65	16.50	0.052	-25.68	40.50	0.030	-30.46	64.50	0.036	-28.87	88.50	0.005	-46.02
1.50	0.849	-1.42	17.00	0.049	-26.20	41.00	0.030	-30.46	65.00	0.036	-28.87	89.00	0.003	-50.46
1.75	0.753	-2.46	17.50	0.049	-26.20	41.50	0.030	-30.46	65.50	0.036	-28.87	89.50	0.002	-53.98
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